

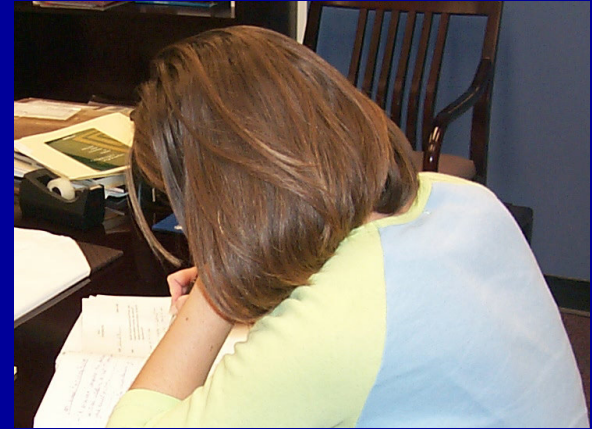
# Georgia Tech Regional Engineering Program

G. Wayne Clough and David Frost

Board of Regents Meeting

May 8, 2002

# Context for GTREP



- Georgia Tech mission:  
Statewide access to quality engineering education  
and support for technology-based economic development.
- Regents' Engineering Transfer Program fills important  
role; building block for next step.
- Opportunity to build on existing collaborative  
relationships and economic development initiatives.
- 1998 need-based study demonstrated role for onsite  
delivery in Southeast Georgia.

# A partnership effort from the beginning

## Academic partner institutions:

Armstrong Atlantic State University

Savannah State University

Georgia Southern University

Skidaway Institute of Oceanography

## Economic development collaborations:

Savannah Economic Development Authority

Coastal Business, Education, and Technology Alliance

Gulfstream Aerospace Corporation

Economic Development Institute

ATDC/Yamacraw



# Guiding Principles for GTREP



- GIT focuses on junior/senior/graduate curriculum; partner institutions provide freshman/sophomore curriculum.
- Collaborate with Skidaway Institute of Oceanography for research and educational opportunities.
- Strategically build programs to optimize regional economic development opportunities.
- Develop technology hub linking Savannah, Statesboro, and other southeast Georgia communities.

# Guiding Principles for GTREP (cont)

- Maintain GIT quality of students and faculty (among top 5 engineering programs in nation).
- Provide opportunities for faculty and students to engage in knowledge discovery and research.
- Use information technology to link institutions, provide students with maximum flexibility, and develop leading-edge model of technology-based education.
- Build new engineering education delivery model.



# Degree Programs

## Fall 2002

### Undergraduate:

Civil Engineering  
Computer Engineering  
Electrical Engineering

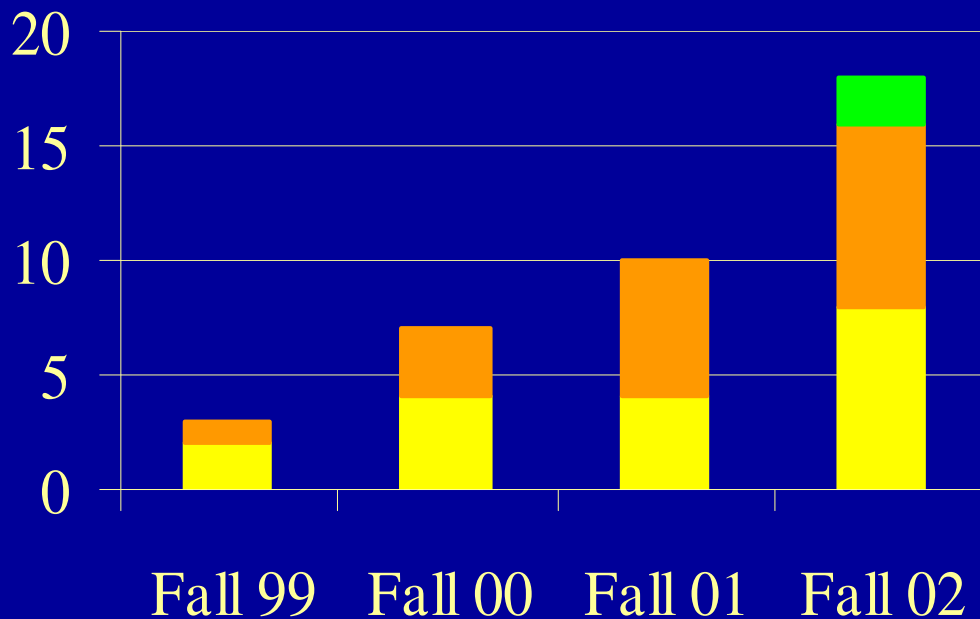
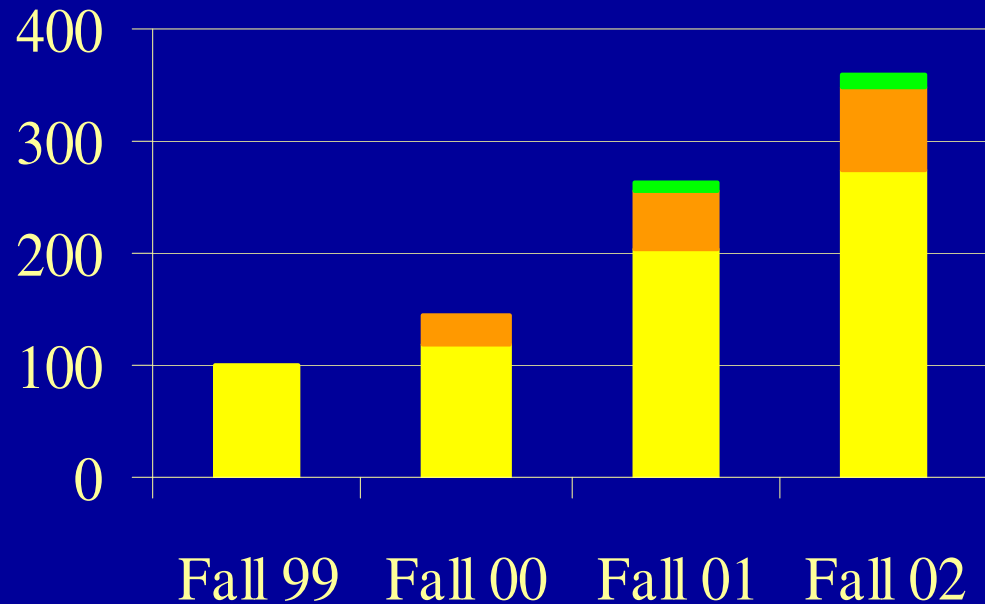
### Graduate:

Civil & Environmental Engineering  
Electrical & Computer Engineering  
Mechanical Engineering

## Next Phase

Undergrad Mechanical Engineering  
Industrial Engineering

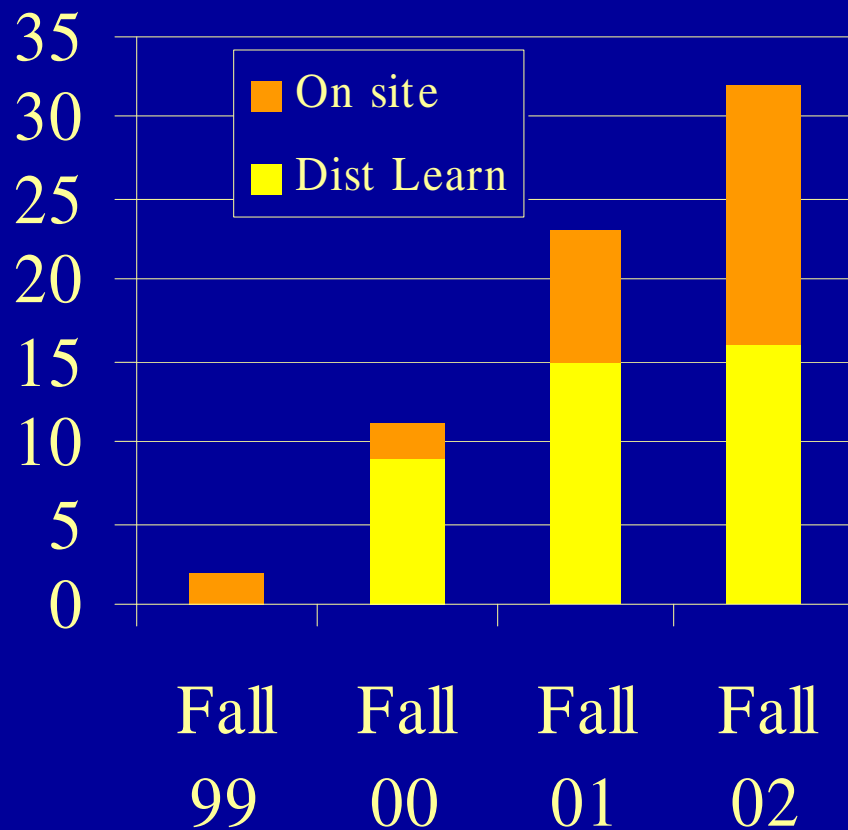
# Enrollment



# Faculty

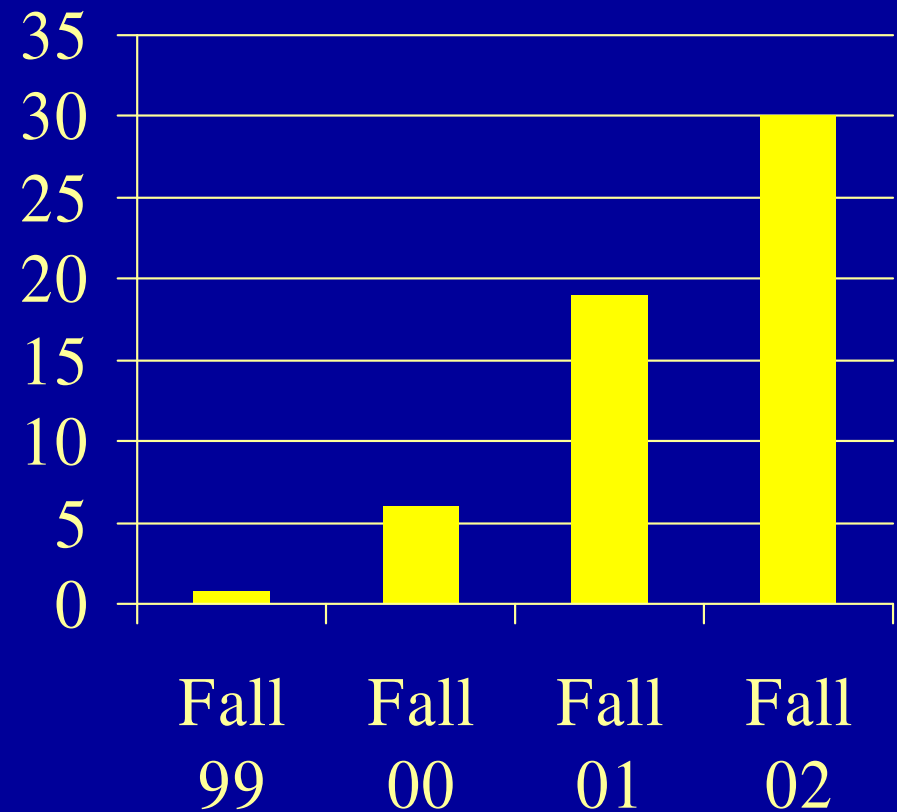


# Program Delivery



# Facilities\*

(GSF in thousands)



\* Leased space at Chatham Center



# First Graduates, December 2001



- 8 students graduated in December; 5 with honors
- 4 took EIT in October; all passed
- 5 now working in SE Georgia
- 7 more graduated May 4
- Triggers ABET accreditation process

# Cutting-Edge Education Technology

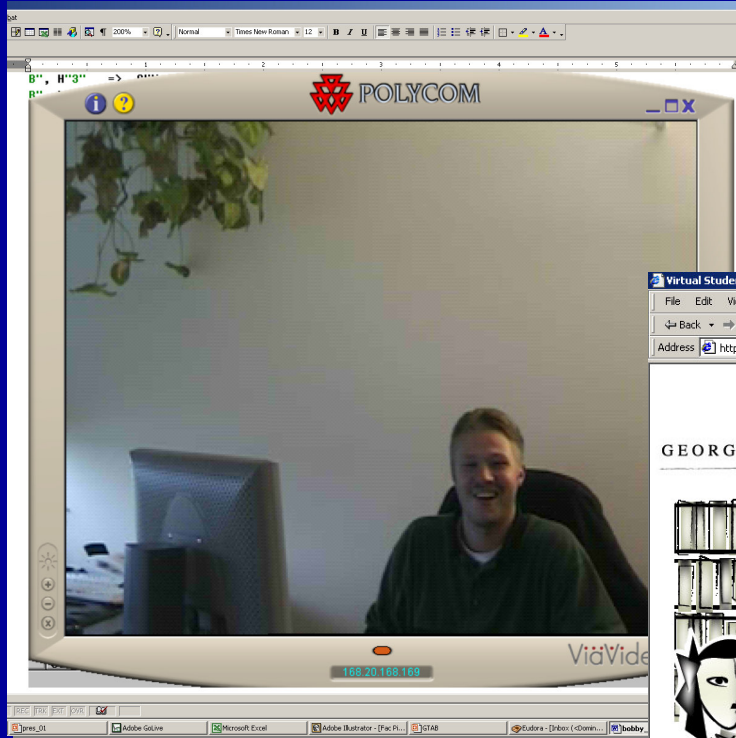


Classrooms are designed to provide instructors and students with seamless high-quality interaction between sites.

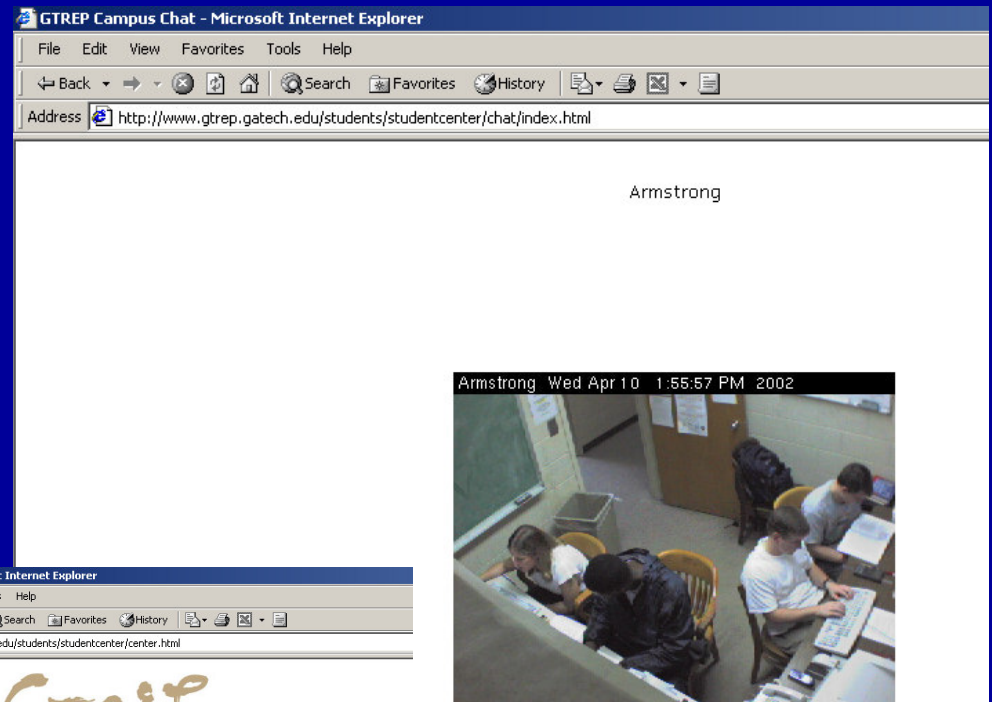


Faculty keep students posted on class, assignment, and exam schedules using a wireless Palm Pilot network.

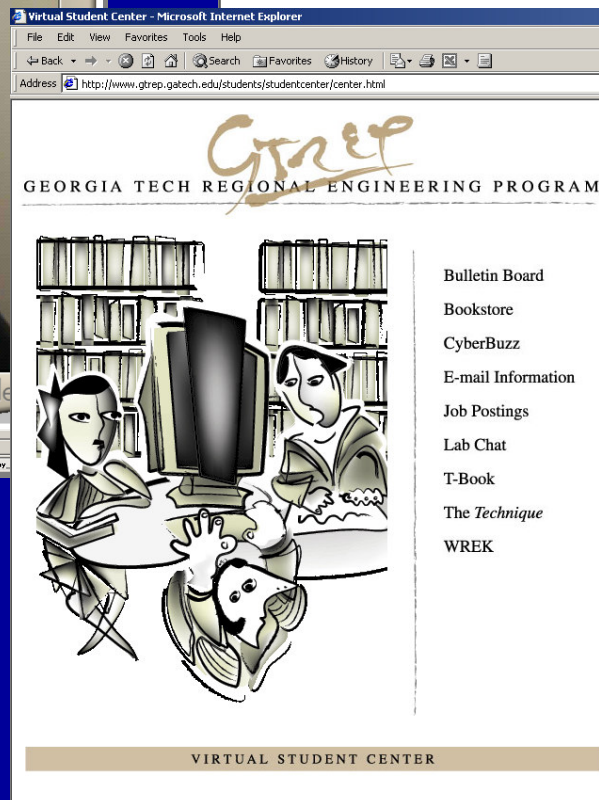
# Resources for Students



Faculty hold  
online office  
hours



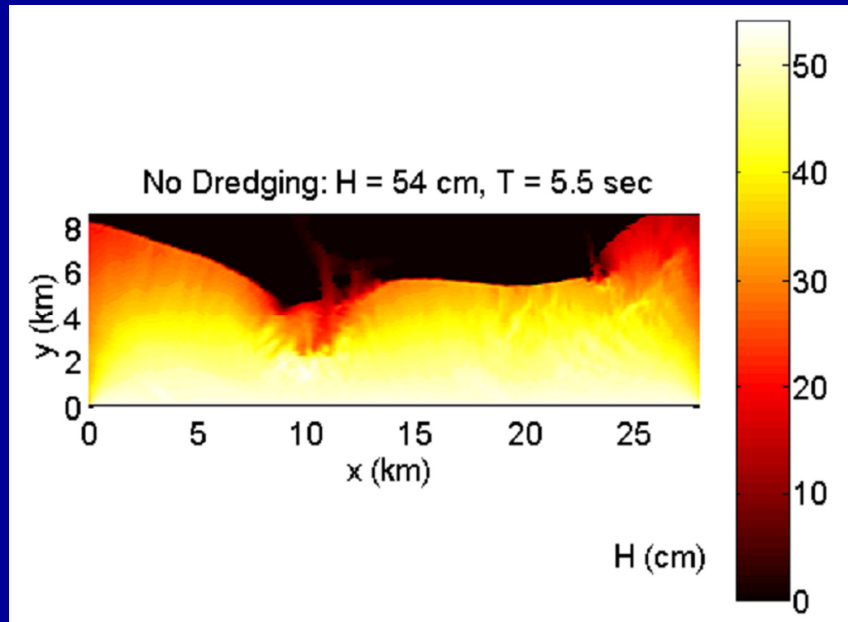
Online chat  
labs for team  
projects



Virtual Student  
Center



# GTREP Research Projects

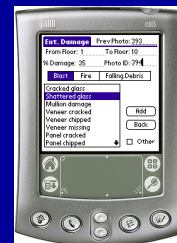


Nearshore impacts of  
offshore dredging

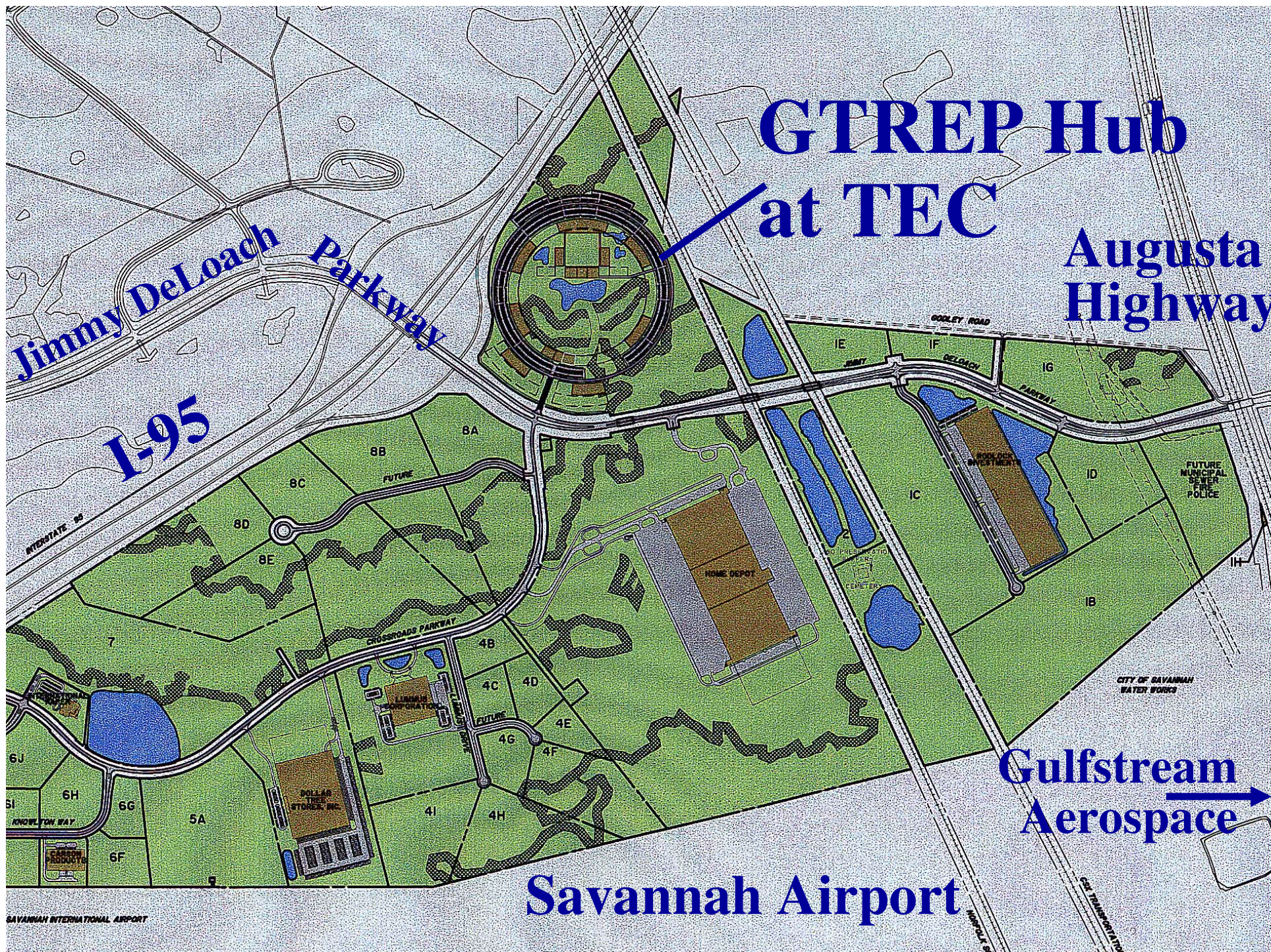
Technology for civil engineering  
field reconnaissance



Education technology









# Community Commitments to TEC

- SEDA:  
46 acres valued at \$2.4 m  
airport/interstate access
- DOT  
\$1.35 m in roads, sidewalks
- City of Savannah  
\$1 m in water/sewer extensions
- SEPCO/BellSouth/Atlanta Gas  
\$1.3 m utility infrastructure



# Projected Enrollment Growth



# Planning for Space Needs

	<u>Timeframe</u>	<u>Space needs</u>
Phase 1	Fall 2003 - Summer 2005	75,000 GSF * - 130,000 GSF
Phase 2	Fall 2005 - Summer 2007	130,000 GSF - 175,000 GSF
Phase 3	Fall 2007 - Summer 2009	175,000 GSF - 235,000 GSF
Phase 4	Fall 2009 - Summer 2019	235,000 GSF - 275,000

**\* Additional 10,000 GSF needed for EDI, ATDC, Yamacraw**



# Facilities for Phase 1

Fall 2003 – Summer 2005

Anticipated need: 104,000 GSF

Includes space for EDI, ATDC, Yamacraw

Proposal to meet the need:

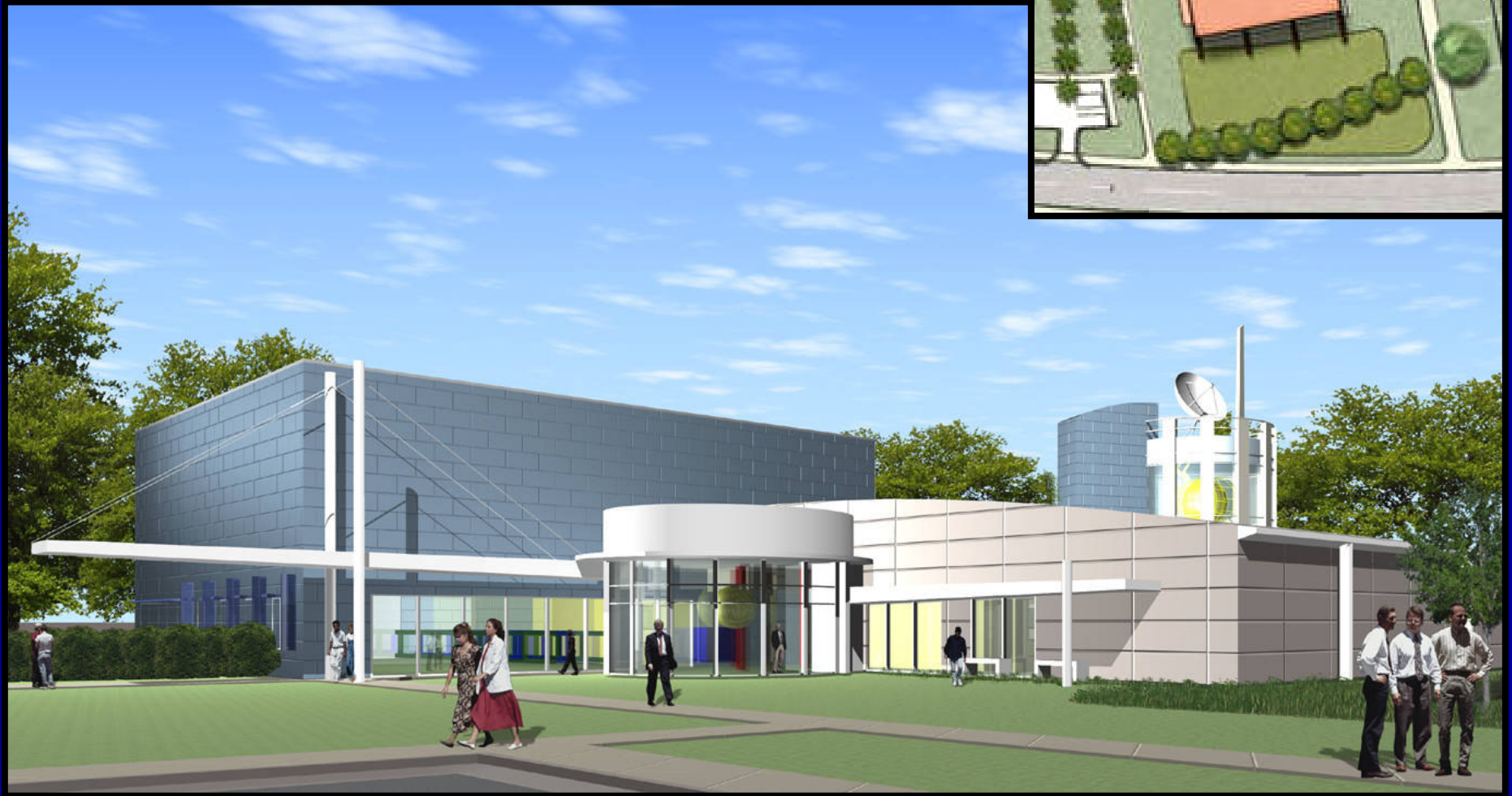
GTREP Collegiate Center 17,000 GSF

Status: \$5 m appropriated; Regents approved;  
purchase and sale agreement pending

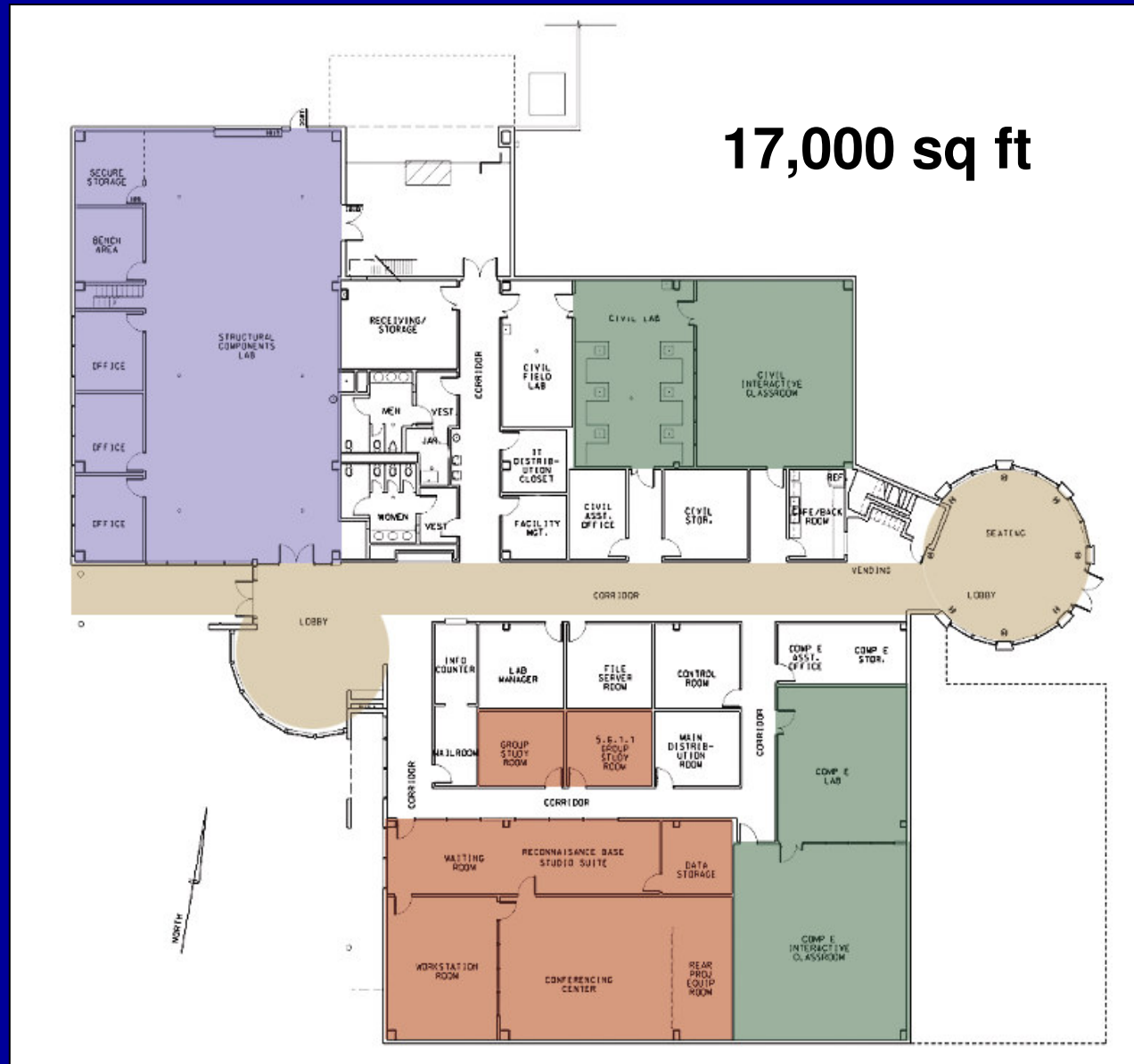
Leased facilities 87,000 GSF

Status: GIT to seek Regents approval to lease  
needed space

# GTREP Collegiate Center



# Collegiate Center Floor Plan



# TEC Master Plan



- 1** GTREP Collegiate Center
- 2** North Leased facility
- 3** South Leased facility
-  GTREP Campus